

## HOT WATER SOFTENERS

Res-Kem's HW-Series water softeners are single time clock initiated systems designed for commercial applications. They are controlled by fully automatic multi-port valves with fixed regeneration cycles.

### Quality Features

- ❑ Seamless, vinylester mineral tanks,
- ❑ Durable polyethylene brine tank
- ❑ 3/4", or 1" service inlet/outlet
- ❑ 7/12 day, 5 cycle time control
- ❑ Greater commercial capacity in less space
- ❑ High capacity "industrial" grade high temperature exchange resin

### Controls

The heart of the system is Fleck's 4650 brass and Noryl control valve. In its standard configuration, it provides a rugged, low maintenance, high quality system able to meet the most demanding needs.

### Mineral Tanks

All tanks are NSF approved for potable water use, have a threaded top opening and either plastic, rubber or fiberglass base, depending on size.

### Exchange Resin

A premium industrial grade 12% cross linked polystyrene type cation resin is used in all hot water softeners. The maximum exchange capacity is 30,000 grains/ft<sup>3</sup> when regenerated with 15 lbs of NaCl/ft<sup>3</sup>, versus 20,000 grains/ft<sup>3</sup> when regenerated with 6 lbs of NaCl/ft<sup>3</sup>.

### Brine System

The brine holding tank is a combination salt storage/brine measuring tank fabricated from durable polyethylene, cover included. Units are furnished with hot water float operated brine suction and refill shut-off valve.

### Distribution System

The internal distribution system is constructed of high temperature CPVC. The bottom distributor may be a single stainless steel strainer or a hub and lateral configuration, depending on the size of the system and the required flow rate.

### Warranty

The control valve is warranted for two (2) years against defects in material and workmanship. The mineral tanks and brine tanks have a limited five to ten year warranty depending on size and type. Contact factory for details.

# HW SERIES HOT WATER SOFTENER SPECIFICATIONS

MODEL NUMBER	RESIN TANKS (IN.)	BRINE TANK (IN)	RESIN PER TANK (Cu Ft.)	CAPACITY PER REGEN/SYSTEM		FLOWRATE GPM		SALT STORAGE QTY (LBS.)	SHIP WEIGHT (LBS.)
				MIN	(1) MAX	C (2)	P		
HW4650-1	7x24	18x33	0.3	6,000	9,000	3	6	250	65
HW4650-1D	7X24	18x33	0.3	12,000	18,000	6	12	250	115
HW4650-2	8X30	18x33	0.5	10,000	20,000	4	8	250	80
HW4650-2D	8X30	18x33	0.5	20,000	40,000	8	116	250	145
HW4650-3	9X40	18x33	0.9	18,000	27,000	5	10	250	105
HW4650-3D	9X40	18x33	0.9	36,000	54,000	10	20	250	195
HW4650-4	10X40	18x33	1	20,000	30,000	6	12	250	110
HW4650-4D	10X40	18x33	1	40,000	60,000	12	24	250	205
HW4650-5	10x47	18x33	1.25	25,000	37,500	7	14	250	125
HW4650-5D	10x47	18x33	1.25	50,000	75,000	14	28	250	135

**NOTES:**

- (1) Resin capacity per regeneration is based on 6 lbs NaCl per ft<sup>3</sup> (min.) and 15 lbs NaCl per ft<sup>3</sup> (max)
- (2) Continuous service is based on a flow rate of 10 gpm/ft<sup>2</sup>  
Peak service is based on a flow rate of 20 gpm/ft<sup>2</sup> (for intermittent service only)
  - Single unit systems are normally furnished with a 12-day time clock.
  - Standard dual systems operate in parallel with time clock initiated regeneration.
  - Brine tanks are constructed of heavy-duty polyethylene and include covers. Brine systems include hot water brine pick-ups with a safety float.

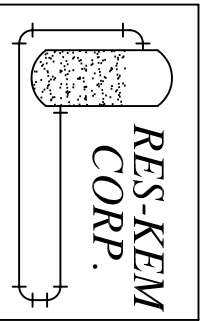


MODEL	DIMENSIONS (INCHES)							INLET/ OUTLET SIZE	BRINE CONN. SIZE*	DRAIN CONN. SIZE
	A	B	C	D	E	F	G			
HW4650-1	32	29	7	18	30	18	18	3/4" MNPT	3/8"	1/2" MNPT
HW4650-1D	32	29	7	18	30	18	42	3/4" MNPT	3/8"	1/2" MNPT
HW4650-2	43	30	8	18	30	18	18	3/4" MNPT	3/8"	1/2" MNPT
HW4650-2D	43	30	8	18	30	18	44	3/4" MNPT	3/8"	1/2" MNPT
HW4650-3	48	31	9	24	30	24	24	3/4" MNPT	3/8"	1/2" MNPT
HW4650-3D	48	31	9	18	30	18	46	3/4" MNPT	3/8"	1/2" MNPT
HW4650-4	48	32	10	18	30	18	18	3/4" MNPT	3/8"	1/2" MNPT
HW4650-4D	48	32	10	18	30	18	48	3/4" MNPT	3/8"	1/2" MNPT
HW4650-5	55	32	10	18	30	18	18	3/4" MNPT	3/8"	1/2" MNPT
HW4650-5D	55	32	10	18	30	18	48	3/4" MNPT	3/8"	1/2" MNPT

\* BRINE CONNECTION IS A COMPRESSION FITTING

NOTES:

- (1) ALL PIPING & VALVES TO BE FURNISHED BY OTHERS.
- (2) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN 5 FEET OF THE EQUIPMENT
- (3) UNIONS SHOULD BE LOCATED ON THE INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE TO CONFORM TO THE SANITATION CODES AND TO PERMIT THE OBSERVATION OF DRAIN FLOW.
- (5) ALLOW 24 INCHES ABOVE THE SOFTENER FOR FILLING.



PO BOX 1059  
 MEDIA, PA 19063  
 TELEPHONE: 610.358.0717  
 FAX: 610.358.4642  
 E-MAIL: sales@reskem.com  
 INTERNET: http://www.reskem.com

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